

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-277998

(43)Date of publication of application : 02.10.1992

(51)Int.Cl.

H04R 3/02

(21)Application number : 03-063957

(71)Applicant : YAMAHA CORP

(22)Date of filing : 05.03.1991

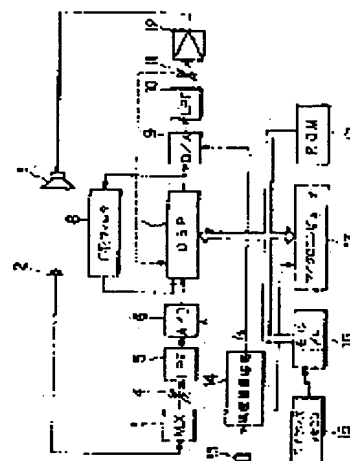
(72)Inventor : ANDO SHIGEO
ARAI JIHEI

(54) HOWLING CANCELLER

(57)Abstract:

PURPOSE: To realize the howling canceller to cancel howling due to feedback of an acoustic signal in an acoustic system in which the acoustic signal inputted to a microphone is outputted from a speaker.

CONSTITUTION: An FIR filter 8 applies convolution calculation to an input signal to a speaker 1 based on a coefficient decided by the result of impulse response measurement of an acoustic system having a reproduction speaker 1 and a sound collection microphone 2, and a digital signal processing circuit 7 adds an output signal of the microphone 2 and an output signal of the FIR filter 8 through phase inversion to each other to obtain the input signal to the speaker 1. Thus, a circuit cancelling howling from the speaker 1 to the microphone 2 due to a reflection sound parameter is made up of a DSP7 and the FIR filter 8.



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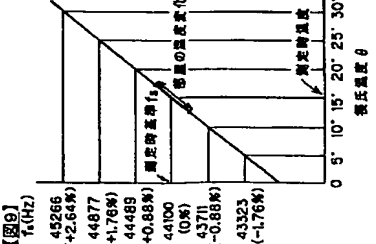
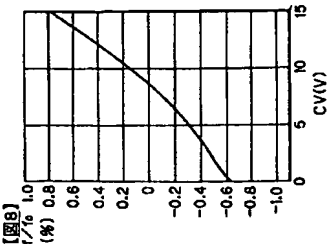
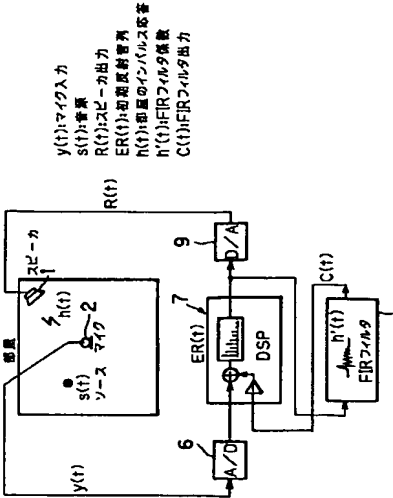
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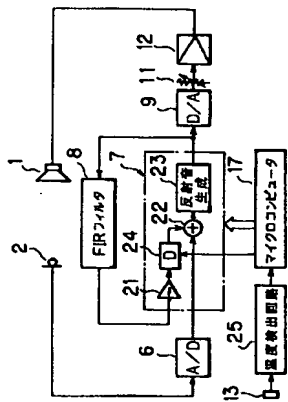
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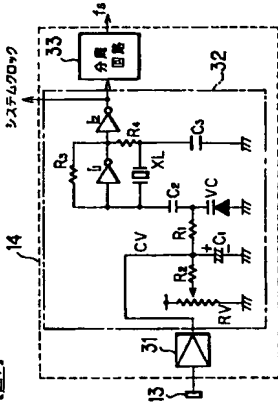
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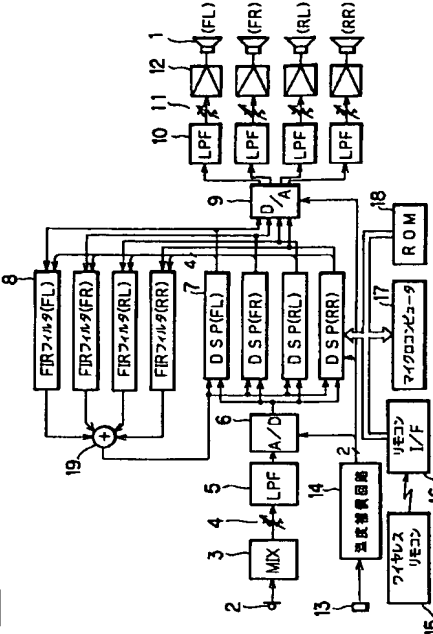
【図6】



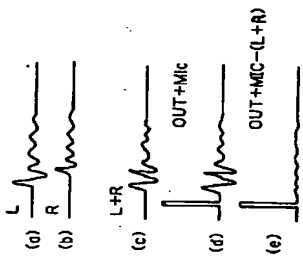
【図7】



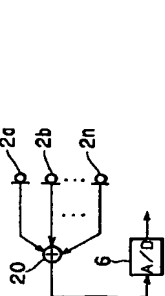
【図11】



【図13】



【図14】



【図15】

